

Special Issue

Piezoelectric Materials for Photocatalysis and Electrocatalysis

Message from the Guest Editors

This Special Issue, entitled *Ferroelectric Materials for Photocatalysis and Electrocatalysis*, aims to provide a platform for recent advances in the design, synthesis, and application of ferroelectrics and related functional oxides for sustainable energy and environmental technologies. The scope of this Special Issue includes, but is not limited to, ferroelectric-driven photocatalysis for pollutant degradation and solar fuel production, ferroelectric electrocatalysts for water splitting, CO₂ reduction, and nitrogen fixation, as well as novel characterization techniques that analyze polarization-catalysis relationships at the nanoscale. Keywords: ferroelectric materials; photocatalysis; electrocatalysis; charge separation; polarization effects; functional oxides; water splitting; CO₂ reduction; environmental remediation; energy conversion

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Deadline for manuscript submissions

20 September 2026



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/254521

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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